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Online Knowledge Assessment

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ABSTRACT: -

Innovation has made the operations of the computer easy enough in processing record systems such as, creation of data records, storing, filing and retrieval of data. Through the development of Information and Communications Technology, people nowadays are living in the so-called digital world. Because of this trend, even schools and universities are taking their steps to be a part of the digital community. The student portal is a gateway to connect many web applications which is useful for doing student activities. The portal web page provides access to many applications such as online courses and links to different websites. Online student portal is a web application which is useful for learners to choose right information.

Key-Words:- E-learning, Technology, Education, Tablets

I. INTRODUCTION

A website is a collection of web pages, thus a portal is a collection of links to different websites. The student portal is a gateway to connect many web applications which is useful for doing student activities. The portal web page provides access to many applications such as online courses and links to different websites. Online Knowledge Assessment portal is a web application which is useful for learners to choose right information. Online Knowledge Assessment Portal works like, initially the one who needs to get access only after his or her registration to the application. The membership is only provided by the admin after checking the correctness of information provided by the user. This application can be implemented in a specified organization or with a world wide access. Only the members can make use of services provided in the Online Knowledge Assessment portal. Thus a guest user can only view the home page of the web application. After the successful registration the user can make use of the services easily.

II. PROBLEM FORMULATION

Existing portals do not provide students with relevant resources and information according to their respective organization. As a result, students have difficulty accessing the services that school/university provides and completing important tasks.

Thus, the system implemented has the following objectives :

Objective 1: To provide a single place to students where they can do all the study related activities.

Objective 2: To provide an engaging student experience with a single point of access and hub to all applications, information, and content.

Objective 3: Through this Students can add their own notes as well. It is not only useful to the students of the college but also staff members.

III. LITERATURE REVIEW

Despite the enormous growth of e-learning in education and its perceived benefits, the efficiency of such tools will not be fully utilized if the users are inclined to not accept and use the system. Therefore, the successful implementation of e-learning tools depends on whether or not the students are willing to adopt and accept the technology. The researchers found that the detailed analysis of the frequency distribution over the seven years reflects the intensity of scientific discussion towards e-learning trends, and conclusions about the technical potentials of innovations can be introduced. Specifically, they found the development potential of learning management, mobile learning, virtual worlds, e-portfolio, social media and Massive Open Online Courses are crucial for e-learning in German higher education. Nevertheless, the belief that the e-learning tool may possibly have a negative effect on students who will depend on given materials was disproved. However, the success of an e-learning system depends on the understanding of certain antecedent factors that influence the students acceptance and usage of such e-learning systems.

Online Knowledge Assessment portal provides a virtual environment to learners where they can make notes, do assignments, search and explore all at one single platform. This web application automates the existing manual system by the help of computerized equipment and fully fledged software, fulfilling the requirements so that students can have access to all the services provided.

IV. METHODOLOGY

In this paper we have proposed a system which will help the student to get the access to the study portal at their own pace and without any glitch. This system will help overcome the drawbacks that were earlier faced by the students.. The user only needs to login to the portal and they will get the access to the portal in which all the eight modules help them to improve their academics.We will try to integrate each and every possible service which is required by the student to improve their academics performance.

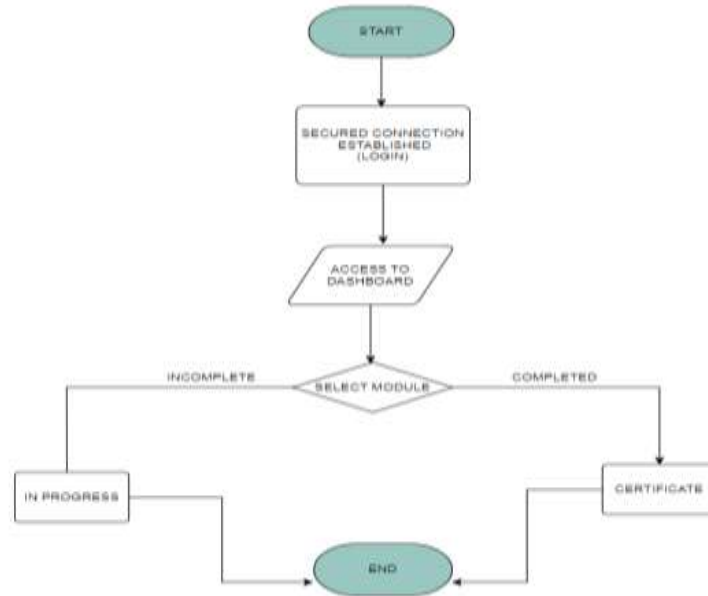


Figure 1. FLOWCHART

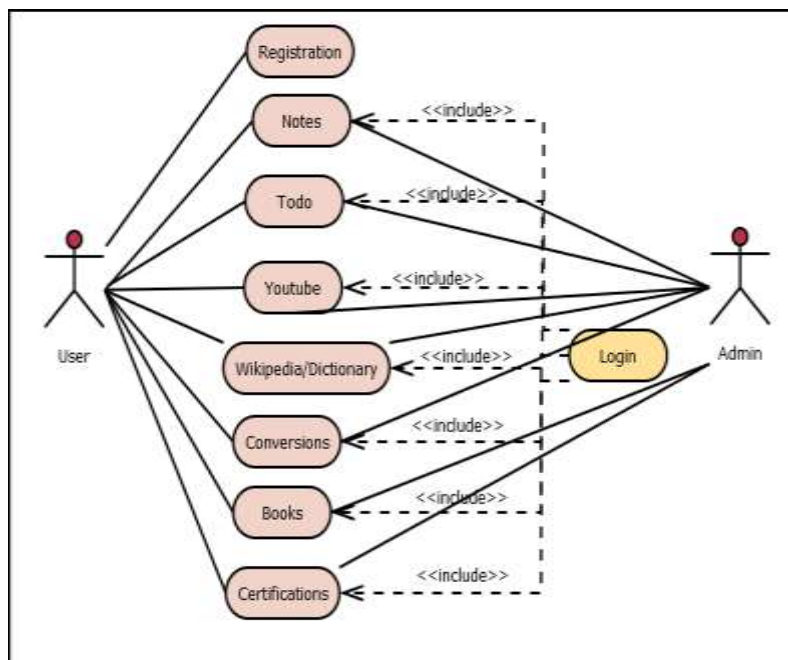


Figure 2. UML

Use Case	Voice based email for blind
Actor	New User , RegisteredUser , G-mail

Description	The use case begins when the actor indicates the intent to register and login to the system. In between users can perform certain actions like accessing the dashboard in which they can add their notes, assignments and get academic references. It ends when the actor is logged out.
Pre-condition	Login exists
Post-condition	Able to access the dashboard (mainly modules).



Figure 3.1. Level 0 Data Flow Diagram

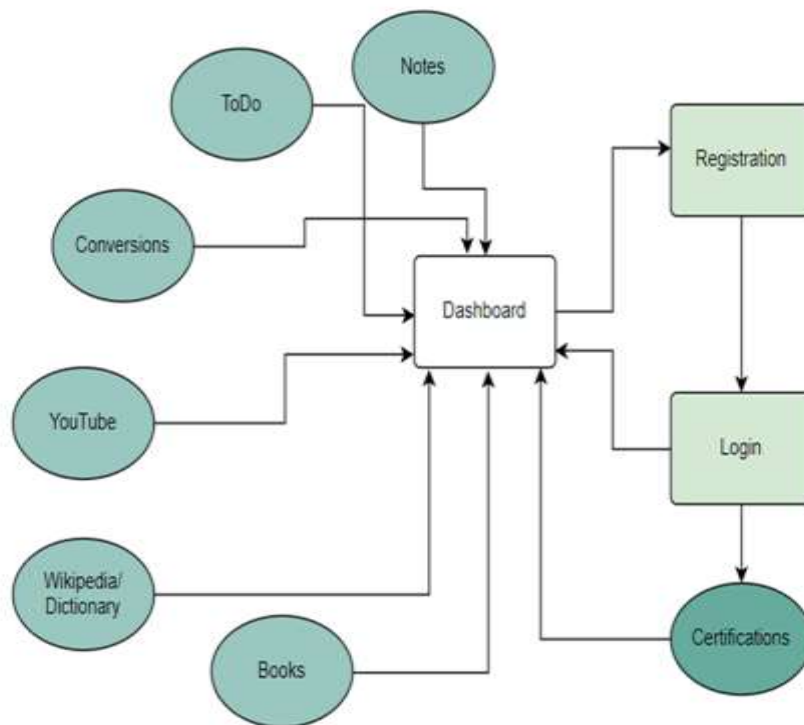


Figure 3.2. Level 1 Data Flow Diagram

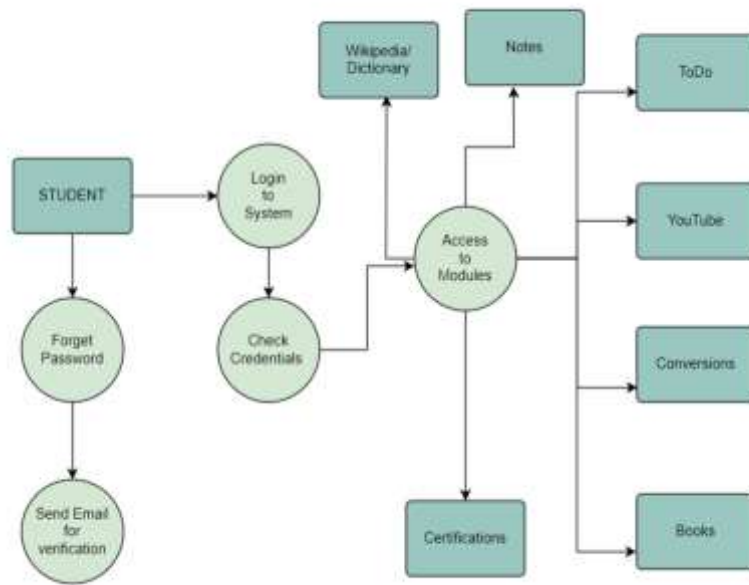


Figure 3.3. Level 2 Data Flow Diagram

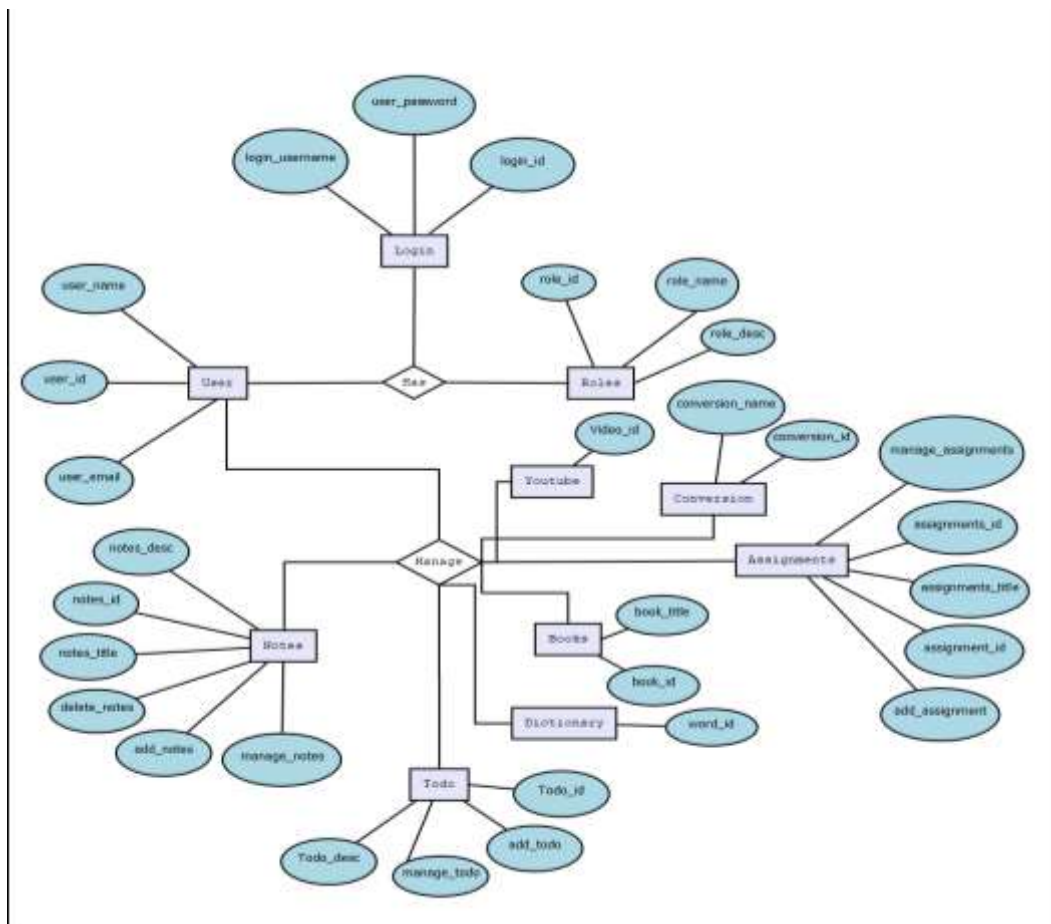


Figure 4 ER diagram

Following modules are being used in our project:

A. User Authentication System:

The user has to give login information such as his/her username, password through voice command, all operations performed will get a voice based feedback.

B. Dashboard Modules :

The features of this application is divided into 8 modules. These modules are as follows:-

1. Notes

Notes module helps users to add their academic notes for their future references.

2. Todo

The Todo module can help users to make a list of everything that they have to do. By keeping such a list, users make sure that our tasks are written down all in one place so we don't forget anything important.

3. Youtube

In the youtube module we will call the youtube APIs so that users can redirect to youtube for any academic reference.

4. Wikipedia/Dictionary

In the wikipedia/dictionary module we will again call the APIs so that users will get the references easily.

5. Books

There will be a collection of e-books(or PDFs) available whichever books are required by the particular institute.

6. Conversions

In this module users will be able to convert from one unit to another.

7. Certifications

In certification modules users will earn certificates by attempting a number of quizzes.

V. RESULT DISCUSSION

Online Knowledge Assessment Portal is a top-notch software kit for students where they will get access to all the features as mentioned above. This package will prove to be a powerful package in satisfying the requirements of the users. This application is flexible and changes can be made without any difficulty. In future, the system can be extended to conduct various interacting sections for each and every person comes under the college or institution. Also more discussion forums can be introduced in order to know each moment in college. The Online Knowledge Assessment portal system is nothing but a portal which thinks of students as the main target and provides so many useful services to student at a single place and through a single interface but in customized form.

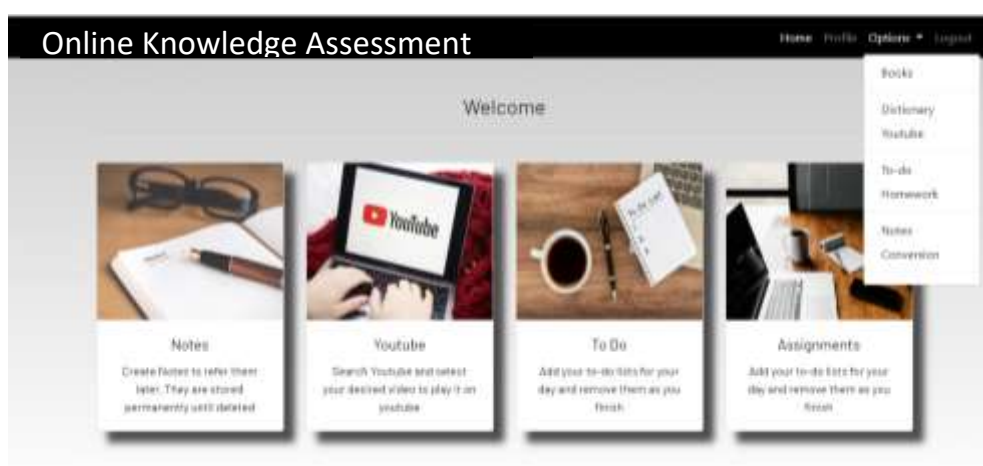


Figure 5. OUTPUT

VI. CONCLUSION

The research is based on the implementation of a web portal in a web development platform. It can be easily implemented in any institution without much modification. Some of the user requirements are user friendliness, data security and data maintainability. All these requirements are included in this project. Thus the application is more flexible and changes can be made without any difficulty. In future, the system can be extended to conduct various interacting sections for each and every person who comes under the college or institution. Also more discussion forums can be introduced in order to know each moment in college.

Portal is a web system that provides the functions and features to authenticate and identify the users and provide them with an easy intuitive, personalized and user customizable web interface for facilitating access to information and services that are of primary relevance and interests to the user. The Online Knowledge Assessment portal system is nothing but a portal which thinks of students as the main target and provides so many useful services to student at a single place and through a single interface but in customized form. We have evaluated our proposed architecture by comparing the performance of our proposed GUI with that of the existing GUI.

VII. ACKNOWLEDGMENT

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We have grown both personally and academically from this experience and we are very grateful for having had the opportunity to conduct this study.

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